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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/809,626	03/24/2004	Simone Arrigo	19414-08962	7482
758 FENWICK & V	7590 02/19/2008	EXAM	INER	
SILICON VALLEY CENTER			SHENG, TOM V	
801 CALIFOR MOUNTAIN \	NIA STREET /IEW, CA 94041		ART UNIT	PAPER NUMBER
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			MAIL DATE	DELIVERY MODE
		02/19/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Application Application No. Application ARRICO ET AL	•						
### Examiner Tom V. Sheng 2629		Application No.	Applicant(s)				
Tom V. Sheng 2229 Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. **A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. **In Operation of Prophy is specified above, the maximum distinction, 100, in to event, however, usy a reply be limited from the remiting date of this communication. **In Operation of Prophy is specified above, the maximum distinction period will apply and will equip 93.0 (%) MONTHS from the remiting date of this communication. **In Operation of Prophy is specified above, the maximum distinction period will apply and will equip 93.0 (%) MONTHS from the remiting date of this communication. **In Operation of Prophy is specified above, the maximum distinction period will apply and will equip 93.0 (%) MONTHS from the remiting date of this communication. **Status** **In Operation of Prophy is specified on 29 October 2007.** **Prophy In Station is FINAL.** **Disposition of Claims** **AD In Specification is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. **Disposition of Claims** **AD Claim(s) 1-22 Star and 27-51 Is/are allowed.** **AD Claim(s) 1-22 Star and 27-51 Is/are allowed.** **AD Claim(s) 1-22 Star and 27-51 Is/are allowed.** **OC Claim(s) 1-22 Star erejected.** **The specification is objected to by the Examiner.** **Application Papers** **Pin Expecification is objected to by the Examiner.** **Application Papers** **Pin Expecification is objected to by the Examiner.** **Application Papers** **Pin Expecification is objected to by the Examiner.** **Application Papers** **Pin Expecification is objected to by the Examiner.** **Application Papers** **Pin Expecification is objected to by the Examiner.** **Application Paper		10/809,626	ARRIGO ET AL.				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Excessions of line map be available used the provisions of 3° CPR 1.18(s). In THIS COMMUNICATION. 1 NO period for reply is accorded advove, the maximum statutory proded will apply and will output 50 Mines 10 Mines	Office Action Summary	Examiner	Art Unit				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. • Extensions of time may be available under the provisions of 37 CPR 1 136(a). In no event, however, may a raight be limitly liked • Extensions of time may be available under the provisions of 37 CPR 1 136(a). In no event, however, may a raight be limitly liked • Extensions of time may be available under the provisions of 37 CPR 1 136(a). The control of the provisions of 37 CPR 1 136(b). The control of the provision of 24 CPR 1 136(b). The control of the provision of 24 CPR 1 136(b). The control palent term adjuntment. Sea 37 CPR 1 136(b). The control palent term adjuntment. Sea 37 CPR 1 136(b). This action is FINAL. 20) Special term adjuntment. Sea 37 CPR 1 136(b). This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. 20) Exposition of Claims 4) Claim(s) 1-22,24 and 27-51 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5b) Claim(s) 24 and 27-51 is/are allowed. 6b) Claim(s) 24 and 27-51 is/are allowed. 7c) Claim(s) 1-22 is/are rejected. 7c) Claim(s) 1-22 is/are rejected to. 8c) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. Sea 37 CPR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. Sea 37 CPR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 20riority under 35 U.S.C. § 119 12) Acknowledgment							
WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Estatesized time may be a validate under the provised word of 30° FR1-1360°, in ne event, however, may a reply be limely filed after SX (9) MONTHS from the mailing date of this communication. - Failure terry within the set or estated period for region 40° keV (1) year (1) y		ears on the cover sheet with the c	orrespondence address				
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2a) ☐ This action is FINAL. 2b) ☐ This action is non-final. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ☐ Claim(s) 1-22,24 and 27-51 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) 24 and 27-51 is/are allowed. 6) ☐ Claim(s) 1-22 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☐ Notice of Praftsperson's Patent Drawing Review (PTO-948) 1) ☐ Notice of Infermal Patent Application	Status						
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Application/Control Number: 10/809,626

Art Unit: 2629

SUPPLEMENTAL ACTION

Comment

In the office action of 1/24/2008, the examiner has misstated that claims 24 and 27-51 as rejected in the Office Action Summary. In fact, claims 24 and 27-51 have overcome all previous rejections. The examiner thanks attorney Rajiv Patel for pointing out the error.

Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 1-22 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-21 of U.S. Patent No. 6,781,570.

10/809,626 Art Unit: 2629

Although the conflicting claims are not identical, they are not patentably distinct from each other because the claims of the application are obvious over the claims of the patent.

Detail of comparison between claim 1 of the application and the patent is as follow.

Claim 1 of the application	Patent 6,781,570
A photo-sensitive element configured to	The optical sensor for characterizing
receive reflected light from a light source	movement relative to the wireless device
to produce a first image data associated	with a number of images (claim 1).
with a first image and a second image data	The optical sensor includes at least an
associated with a second image.	LED for providing light that is reflected off
	a surface or object, the reflected light
	being projected onto a photo-sensitive
	element included in the optical sensor
	(claim 7).
	Claimed photo-sensitive element
	corresponds to the photo-sensitive
	element of the optical sensor, of the
	patent.
	Claimed reflected light from a light source
	corresponds to the light reflected off a

10/809,626 Art Unit: 2629

surface or object and originates from an LED, of the patent.

There is no direct correspondence
between claimed first and second image
data and the characterizing movement
with a number of images, of the patent

An image data processing logic coupled to the photo-sensitive element for receiving the image data and configured to detect activity based on the image data and to qualify detected activity as false activity based on statistical analysis of past activity.

A processing unit ... for receiving ... movement data (claim 1).

The optical sensor ... for providing movement data that is derived from the images to the processing unit (claim 1).

The processing performed by the processing unit includes qualifying the movement data so as to determine if the associated movement is true user activity ... of false user activity ... (claim 3).

The movement data is qualified based on statistics characterizing the user's usage patterns associated with the wireless input

Claimed image data processing logic

device (claim 5).

10/809,626 Art Unit: 2629

coupled to the photo-sensitive element correspond to the processing unit with the optical sensor, of the patent, and teaches providing movement data derived from the images.

Claimed qualifying of activity corresponds to the qualifying of movement data as to true or false user activity, of the patent.

Claimed qualifying of activity based on statistics of past activity corresponds to the qualifying of movement data based on the user's usage pattern. [The usage pattern is based on past movements and thus past activity.]

A power control logic operatively coupled to the image data processing logic and configured to implement a native power control mode wherein an internal algorithm changes the power consumption of the optical sensing assembly from a full power mode to one or more lower power modes

Wherein the native mode of the optical sensor includes at least three power consumption levels self-controlled by the optical sensor (claim 14).

Wherein ... the optical sensor further

Wherein ... the optical sensor further comprises computing logic that controls the transition between the power

10/809,626 Art Unit: 2629

based on the image data.	consumption levels (claim 15).
	Claimed power control logic corresponds
	to the computing logic of the patent.
	Claimed native power control mode
	corresponds to the native mode of the
	optical sensor, of the patent.
	Claimed internal algorithm is inherent with
	the computing logic of the patent.
	Claimed changes between power modes
	correspond to the transition between the
	power consumption levels, of the patent.

As analyzed above, there is no direct correspondence between claimed first and second image data and the characterizing movement with a number of images, of the patent. On the other hand, one of ordinary skill in the art would recognize that in order to characterize movement with a number of images, it would obviously involve first converting the images to image data first in order to facilitate the characterization of movement. Therefore, it would have been obvious to provide conversion of received images to image data, in order to facilitate subsequent characterization of movement.

Claims 2-22 are similarly rejected over claims 1-21 of the patent.

10/809,626 Art Unit: 2629

- 3. Claims 24 and 27-51 are allowed.
- 4. The following is a statement of reasons for the indication of allowable subject matter: none of the prior art of record teaches, inter alia, the limitations "querying for a first activity at a first polling rate, in response ... it does not represent false activity based on statistical analysis of past activity, maintaining the first power consumption mode" of claim 24. Claims 27-51 are dependent on claim 24.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tom V. Sheng whose telephone number is (571) 272-7684. The examiner can normally be reached on 9:00am - 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe can be reached on (571) 272-7691. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

10/809,626

Art Unit: 2629

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Tom Sheng

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